

MA3SD29FG

Silicon epitaxial planar type

For super high speed switching circuits

■ Features

- Low forward voltage V_F : < 0.42 V (at $I_F = 100$ mA)
- Optimum for high-frequency rectification
- Short reverse recovery time t_{rr}

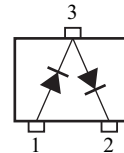
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Repetitive peak reverse voltage	V_{RRM}	30	V
Forward current (Average)	Single	100	mA
	Series	75	
Peak forward current	Single	200	mA
	Series	150	
Non-repetitive peak forward surge current *	I_{FSM}	1	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

Note) *: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

■ Package

- Code
SSMini3-F3
- Pin Name
1: Anode 1
2: Cathode 2
3: Cathode 1
Anode 2
- Internal Connection



■ Marking Symbol: M5R

■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

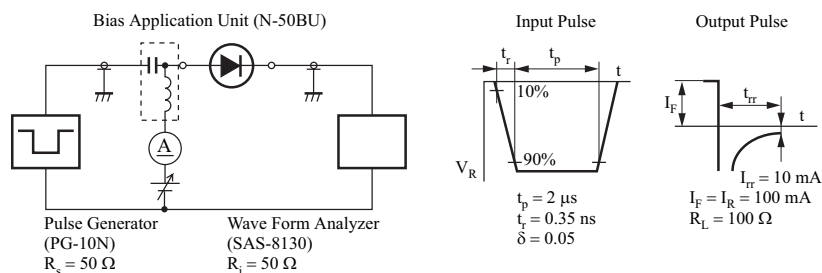
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 10$ mA		0.25	0.29	V
	V_{F2}	$I_F = 100$ mA		0.39	0.42	
Reverse current	I_{R1}	$V_R = 10$ V			25	μA
	I_{R2}	$V_R = 30$ V			120	
Terminal capacitance	C_t	$V_R = 0$ V, $f = 1$ MHz		11		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA, $I_{rr} = 10$ mA, $R_L = 100 \Omega$		1		ns

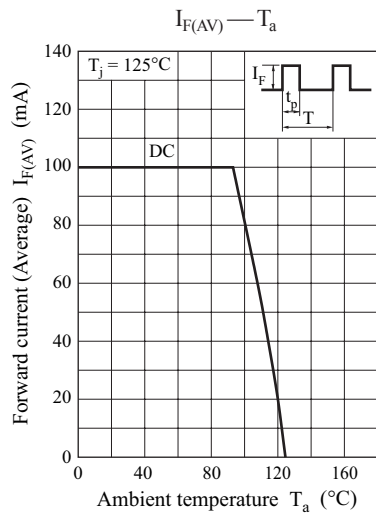
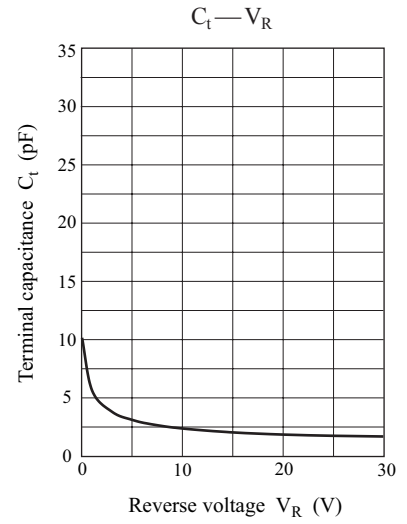
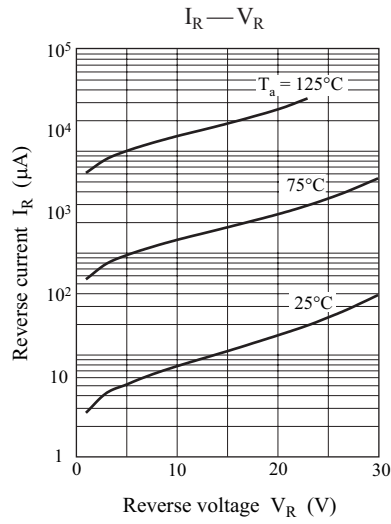
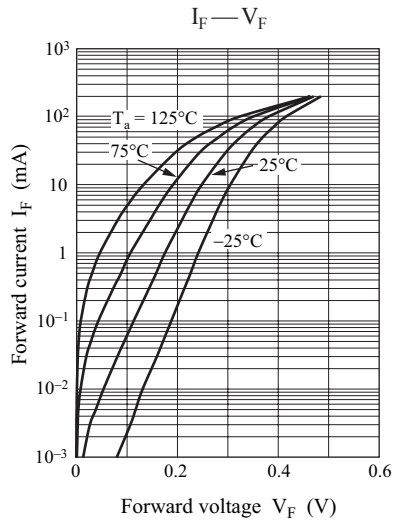
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 250 MHz

3. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

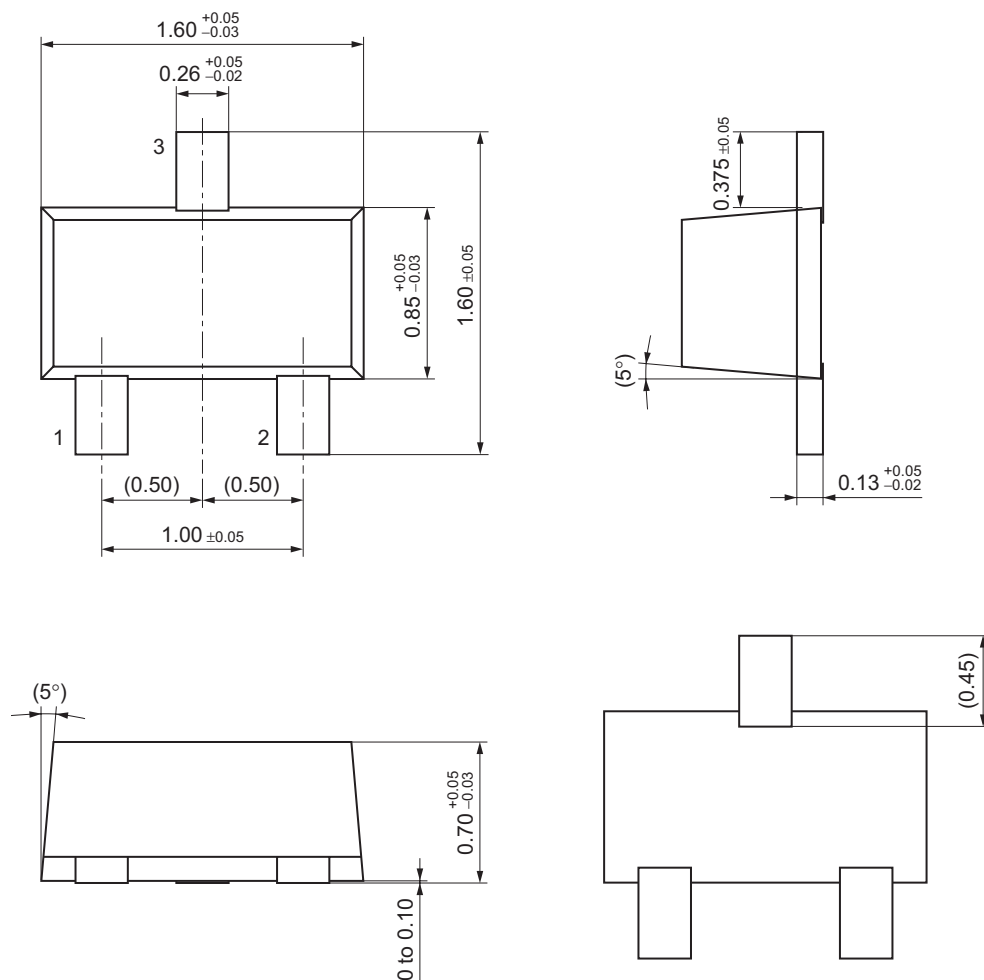
4. *: t_{rr} measurement circuit





SSMini3-F3

Unit: mm



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